1,2,2,3-Tetrabromopropane

Inchi: InChI=1S/C3H4Br4/c4-1-3(6,7)2-5/h1-2H2
InchiKey: SNLFZAHVOKOBOP-UHFFFAOYSA-N
Formula: C3H4Br4
SMILES: BrCC(Br)(Br)CBr
Mol. weight [g/mol]: 359.68
CAS: 54268-02-9

Physical Properties

Property code	Value	Unit	Source
gf	34.50	kJ/mol	Joback Method
hf	-8.68	kJ/mol	Joback Method
hfus	17.25	kJ/mol	Joback Method
hvap	46.72	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.262		Crippen Method
mcvol	123.130	ml/mol	McGowan Method
pc	6818.86	kPa	Joback Method
tb	529.45	K	Joback Method
tc	791.72	K	Joback Method
tf	365.19	K	Joback Method
vc	0.441	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	176.12	J/mol×K	529.45	Joback Method
cpg	181.44	J/mol×K	573.16	Joback Method
cpg	186.01	J/mol×K	616.87	Joback Method
cpg	189.95	J/mol×K	660.58	Joback Method
cpg	193.37	J/mol×K	704.30	Joback Method
cpg	196.38	J/mol×K	748.01	Joback Method
cpg	199.12	J/mol×K	791.72	Joback Method
dvisc	0.0021159	Pa×s	365.19	Joback Method
dvisc	0.0014518	Pa×s	392.57	Joback Method

dvisc	0.0010463	Pa×s	419.94	Joback Method
dvisc	0.0007849	Pa×s	447.32	Joback Method
dvisc	0.0006086	Pa×s	474.70	Joback Method
dvisc	0.0004852	Pa×s	502.07	Joback Method
dvisc	0.0003960	Pa×s	529.45	Joback Method
hvapt	57.70	kJ/mol	499.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54268029&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume